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Records for: **PN=US 5450999**

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☐ 1. 2/19/1 (Item 1 from file: 351)

010434722 **Image available**

WPI Acc No: 1995-336042/199543

XRPX Acc No: N95-251952

**VAV air conditioning system controller for office building
and commercial establishment - has fuzzy logic control mechanism for
implementing set of fuzzy logic ruled-based instructions in generating
damper motor operation signal**

Patent Assignee: EMS CONTROL SYSTEMS INT (EMSC-N)

Inventor: SCHOLTEN A J; SCHOLTEN J H A

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| US 5450999 | A | 19950919 | US 94278616 | A | 19940721 | 199543 B |

Priority Applications (No Type Date): US 94278616 A 19940721

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|------------|------|-----|----|-------------|--------------|
| US 5450999 | A | | 22 | F24F-007/00 | |

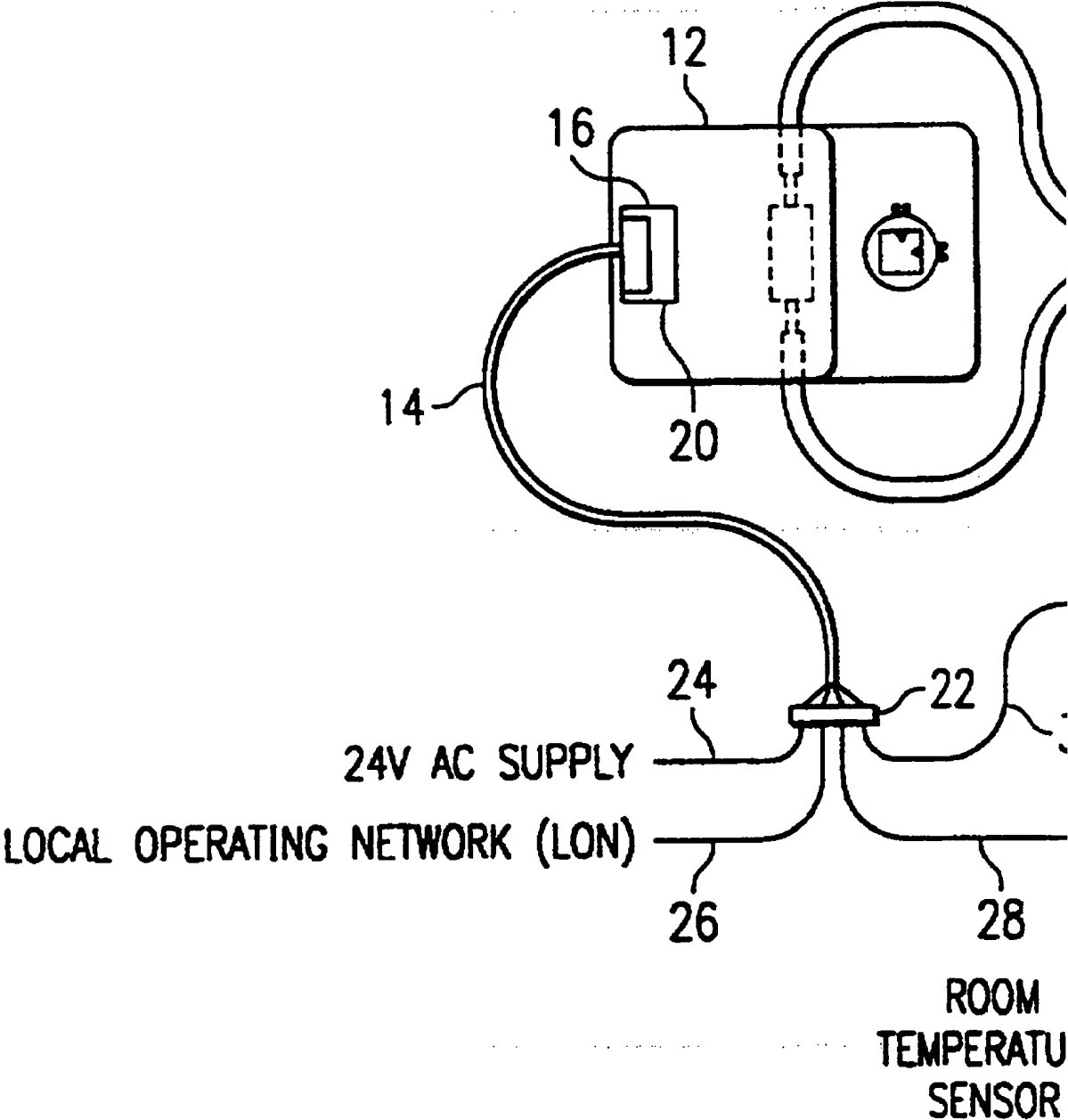
Abstract (Basic): US 5450999 A

The system includes a temperature sensing circuit for generating a temperature process value. A setpoint determining circuit establishes a temperature set point. An airflow signal circuit generates an airflow setpoint in response to the temperature process value and setpoint. A flow sensing circuit generates a flow process value in response to a predetermined set of flow sensing inputs.

A damper control circuit generates a damper motor operation signal to control a damper motor, in response to the flow process value and the airflow setpoint. The damper control circuit has a fuzzy logic control mechanism for implementing a set of fuzzy logic rule-based instructions in generating the damper motor operating signal.

ADVANTAGE - Effectively operable with other aspects of environmental management system. Simple to setup and use. Uses simple control instruction. Integrates fuzzy logic control system. Small size system.

Dwg. 1/9



Title Terms: AIR; CONDITION; SYSTEM; CONTROL; OFFICE; BUILD; COMMERCIAL;
ESTABLISH; FUZZ; LOGIC; CONTROL; MECHANISM; IMPLEMENT; SET; FUZZ; LOGIC;
RULE; BASED; INSTRUCTION; GENERATE; DAMP; MOTOR; OPERATE; SIGNAL
Index Terms/Additional Words: AIR; CONDITION; SYSTE
Derwent Class: Q74; T01; X27
International Patent Class (Main): F24F-007/00
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-J08A; T01-J16B; X27-E01B

□ 2.

2/19/2 (Item 2 from file: 345)

12672443

Basic Patent (No,Kind,Date): US 5450999 A 950919

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5450999 A 950919

VARIABLE AIR VOLUME ENVIRONMENTAL MANAGEMENT SYSTEM INCLUDING A FUZZY
LOGIC CONTROL SYSTEM (English)

Patent Assignee: EMS CONTROL SYSTEMS INTERNATIO (AU)

Author (Inventor): SCHOLTEN JEAN H A (AU); SCHOLTEN ANNO J (AU)

Priority (No,Kind,Date): US 278616 A 940721

Applic (No,Kind,Date): US 278616 A 940721

National Class: * 236049300; 236078000D; 454258000

IPC: * F24F-007/00

Derwent WPI Acc No: * G 95-336042; G 95-336042

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5450999 P 940721 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))

US 5450999 P 940721 US 278616 A 940721

US 5450999 P 940721 US AS02 ASSIGNMENT OF ASSIGNOR'S
INTERESTEMS CONTROL SYSTEMS INTERNATIONAL 36 HASLER
ROAD OSBORNE PARK, WESTERN AUSTRLIA ;
SCHOLTEN, JEAN HENRY ALBERT : 19940719;
SCHOLTEN, ANNO JOHANNES : 19940719

US 5450999 P 950919 US A PATENT

US 5450999 P 980512 US RF REISSUE APPLICATION FILED
(REISSUE APPL. FILED)
970918

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